# Recombinant human TIMM8A protein

Catalog Number: ATGP2486

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-97aa

**UniProt No.**
O60220

**NCBI Accession No.**
NP_004076

**Alternative Names**
Mitochondrial import inner membrane translocase subunit Tim8 A, Mitochondrial import inner membrane translocase subunit Tim8 A, DDP, DDP1, DFN1, MTS, TIM8

## PRODUCT SPECIFICATION

**Molecular Weight**
13.4 kDa (120aa) confirmed by MALDI-TOF

**Concentration**
0.25mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
TIMM8A is involved in the import and insertion of hydrophobic membrane proteins from the cytoplasm into the mitochondrial inner membrane. The gene is mutated in Mohr-Tranebjaerg syndrome/Deafness Dystonia Syndrome (MTS/DDS) and it is postulated that MTS/DDS is a mitochondrial disease caused by a defective mitochondrial protein import system. Defects in this gene also cause Jensen syndrome; an X-linked disease with opticoacoustic nerve atrophy and muscle weakness. This protein, along with TIMM13, forms a 70 kDa

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heterohexamer. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Recombinant human TIMM8A proten, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

**Amino acid Sequence**

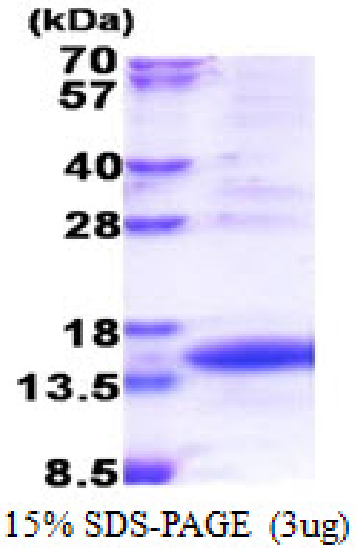
MGSSHHHHHH SSGLVPRGSH MGSMDSSSSS SAAGLGAVDP QLQHFIEVET QKQRFQQLVH QMTELCWEKC MDKPGPKLDS RAEACFVNCV ERFIDTSQFI LNRLEQTQKS KPVFSESLSD

**General References**

Rothbauer u., et al. (2001) J. Biol. Chem. 276:37327-37334
Roesch K., et al. (2004) Hum. Mol. Genet. 13:2101-2111

## DATA

**SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.